

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE		PAGE OF PAGES <b>1</b> <b>1</b>		
2. AMENDMENT/MODIFICATION NO. <div style="text-align: center;">A001</div>		3. EFFECTIVE DATE <div style="text-align: center;">SEE 16C</div>		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY Contracting & Procurement General Services Office, American Embassy Manila Seafront Compound, Roxas Boulevard, Pasay City				7. ADMINISTERED BY (If other than Item 6)			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and ZIP Code)				<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">(√)</div> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">X</div> </div> 9A. AMENDMENT OF SOLICITATION NO. <div style="text-align: center;">SRP 380-15-Q-0098</div> 9B. DATED (SEE ITEM 11) <div style="text-align: center;">06/24/2015</div> 10A. MODIFICATION OF CONTRACT/ORDER NO.  10B. DATED (SEE ITEM 13)			
FACILITY CODE							

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☒ --Is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter of telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

**12. ACCOUNTING AND APPROPRIATION DATA (If required)**

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

(√)	A.	THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B.	THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b)
	C.	THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D.	OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return \_\_\_\_\_ copy to the issuing office.

**14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)**

Solicitation No. SRP-380-15-Q-0098, Supply and Installation of Generator and Automatic Transfer Switch at Antipolo RPTR

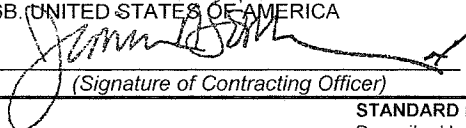
The purpose of this amendment is to:

- a. Provide additional specifications and requirements, as stated in the attached.
- b. Set site inspection scheduled at July 17, 2015, 9AM. Names should be submitted on or before July 10, 2015, 2PM.
- c. Extend submission of proposal

FROM: July 6, 2015, 2PM

TO: July 24, 2015, 2PM

All other terms and conditions remain unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type of print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) <b>Jimmi N. Sommer</b>	
15B. CONTRACT/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED

**1 unit GENERATOR FEATURES:**

Model: HYW-25 M6

Prime (kVA/KW): 21/21

Standby (kVA/KW): 23/23

Voltage (V): 110/220

Frequency (Hz): 60

Dimension (L-W-H) cm: 210 x 97.5 x 135

Weight (kg): 885

**Engine Features:**

Brand: YANMAR

Model: 4TNV84T

Rated Speed (rpm): 1800

Phase System: 1

Cylinder Arrangement: 4-L

Canopy : Ultra Soundproof

Fuel Tank Capacity (L): 100

**1 unit AUTOMATIC TRANSFER SWITCH**

Brand: Weber Automatic Transfer Switch Panel Set

Model: WY-200 (Automatic or Manual Operation Selectable)

Capacity: 200 A

Voltage: 200V-220VAC

Steel Enclosure: Heavy Gauge Steel Panel

Inclusions:

- Mechanical Latch Changeover Switch
- Automatic Engine Start/Shutdown
- Automatic Battery Charger
- Heavy Gauge Steel Panel

**Delivery and Installation Address:**

0015 LT Bonanza Ponderosa Heights San Roque, Antipolo

**NOTE: Vendor may suggest other brand similar or equivalent subject to approval.**

**Please indicate on your quotation delivery lead time and warranty.**

## SRP38015Q0098-A001

Vendors shall provide all information in their quote as specified herein. That information includes brochures and other descriptive details to help explain the product being quoted. The vendor shall also provide the following format for the quote, providing, as a minimum, the information outlined below, in the English language:

**1. Diesel prime-rated generators**— Show the make, model, prime KVA rating, voltage, phases, and frequency ratings of each generator for each property listed in the schedule. Provide brochures for each type of generator.

Each generator shall be a prime power rated engine generator set, including: prime power, directly coupled shaft, engine generator sets. The unit shall be configured to consist of a liquid cooled engine and a conventional alternator and an electronic governor. The unit shall be manufactured complete with system controls and all necessary accessories to make the generator set (genset) fully operational. All equipment shall be as specified but shall not be limited to the items specified herein.

**2. Sound attenuated outdoor enclosure**— Show sound attenuation ratings of the enclosure and muffler. Indicate if the enclosure is weatherproof.

A sound attenuating weatherproof enclosure: The engine-generator set shall be factory enclosed in a 12 gauge steel enclosure constructed with corner posts, coated with electrostatically applied zinc and finished with baked enamel paint. The installed equipment sound levels shall be no more than that afforded by Hospital muffler standards when the unit is operated at full load, under rated ambient conditions. Muffler and entire installation, including sound-attenuating enclosure, shall be Hospital Rated for sound. The muffler shall be Hospital Rated apart from the enclosure. The enclosure, apart from the muffler, shall be rated for 70 dBA sound power level at 7 meters when operating under full load. The enclosure shall have large, removable doors to allow complete access to the engine, alternator and control panel. Each door shall be fitted with stainless steel, lockable hardware with two sets of identical keys. The enclosure shall come equipped with a heater for the prevention of condensation within the enclosure. The enclosure shall meet seismic requirements as specified herein.

**3. Dual-wall tank with leak alarm**— Indicate if the fuel tank has a dual wall with leak alarm. Indicate the fuel tank capacity and run time at full load. Fuel tanks without dual wall are unacceptable. An integral skid type fuel tank shall be provided with the generator set to permit 18-24 hours of operation at full rated load. The fuel tank shall be a dual wall tank with a retention capacity of 110% of the internal tank. The integral fuel tank shall include an interstitial leak detector to provide notification of the presence of fuel in the interstitial space. The leak detector shall be able to be wired to the safety shutdown monitoring system and shall have a dedicated indicator light.

**4. Fuel/water separator**— Indicate presence and type of fuel/water separator provided in quote. The engine fuel system shall be designed for operation using No. 2 diesel fuel. A secondary fuel filter, water separator with glass bowl, manual fuel priming pump and fuel shut-off solenoid and all piping shall be installed on the unit.

**5. Battery charger with trickle/float function**— Indicate presence and type of battery charger in quote. An automatic dual rate battery charger mounted inside the genset enclosure, in its own cabinet, shall be provided. The charger shall have 240 volt, single phase input. The automatic equalizer system shall monitor and limit the charge current to 10 amps. The output voltage is to be determined by the charge

current rate. The charger shall have a maximum open circuit voltage of 35 volts and be protected against a reverse polarity connection.

**6. Batteries**— Indicate presence and type of batteries provided in quote.

A heavy duty, lead acid battery set shall be provided by the generator set manufacturer of adequate voltage and amperage capacity to start and operate the engine. Provide all intercell and connecting battery cables as required for complete installation. The battery shall be shipped in place fully charged with electrolyte.

**7. Anti-Condensation Heater**— Indicate presence and type of anti-condensation heater in quote.

A sound attenuating weatherproof enclosure: The engine-generator set shall be factory enclosed in a 12 gauge steel enclosure constructed with corner posts, coated with electrostatically applied zinc and finished with baked enamel paint. The installed equipment sound levels shall be no more than that afforded by Hospital muffler standards when the unit is operated at full load, under rated ambient conditions. Muffler and entire installation, including sound-attenuating enclosure, shall be Hospital Rated for sound. The muffler shall be Hospital Rated apart from the enclosure. The enclosure, apart from the muffler, shall be rated for 70 dBA sound power level at 7 meters when operating under full load. The enclosure shall have large, removable doors to allow complete access to the engine, alternator and control panel. Each door shall be fitted with stainless steel, lockable hardware with two sets of identical keys. The enclosure shall come equipped with a heater for the prevention of condensation within the enclosure. The enclosure shall meet seismic requirements as specified herein.

**8. Automatic transfer switch**—Show the make, model, voltage, poles, and frequency ratings of each transfer switch being offered. Show weather proof rating of transfer switch enclosure. Indicate if the switch is industrial rated as required in the specifications. Provide brochures for each type of transfer switch.

**8.1 GENERAL**

8.1.1 The automatic transfer switch shall be industrial (NOT residential) grade and furnished so as to maintain system compatibility and local service responsibility for the complete emergency power system. It shall be listed by Underwriter's Laboratory, Standard 1008, with circuit breaker protection afforded by the generator breaker. Representative production samples of the transfer switch, which have been demonstrated through tests, shall withstand 10,000 mechanical operation cycles (minimum) without failure. One operation cycle is the electrically operated transfer from normal to emergency and back to normal. Wiring shall comply with NEC table 373-6. The manufacturer shall furnish complete schematic and wiring diagrams for the particular automatic transfer switch and a typical wiring diagram for the entire system showing all components, relays and part numbers. This ATS shall be matched to the generator set with the option of being secured to the generators' weather-proof enclosure if so specified in the Generator Schedule.

**8.2 ATS RATINGS & PERFORMANCE**

8.2.1 The automatic transfer switch (ATS) shall be a minimum 3-pole design (2-pole + neutral). The ATS shall be rated for full load, continuous operation of the generator or a minimum of 600 Amps, whichever is greater. The ATS rating shall be ambient temperatures of -15 Degrees Celsius to +50 Degrees Celsius. Main power switch contact shall be rated to operate at 400/230 volts minimum unless otherwise specified herein. The transfer switch shall have a minimum withstand and closing rating of 42,000 amperes. The RMS symmetrical fault current ratings shall be the rating listed in the UL listing or component recognition procedures for the transfer switch.

### 8.3 ATS CONSTRUCTION

- 8.3.1 The transfer switch shall be open transition type, positively electrically and mechanically interlocked to prevent simultaneous closing and mechanically held in both normal and emergency positions. Independent break before make action shall be used as protection to prevent dangerous source to source connections. The transfer switch shall be approved for manual operation. The electrical operating means shall be approved for manual operation. The electrical operating means shall be by electric solenoid. Every portion of the contactor is to be positively mechanically connected. No clutch or friction drive mechanism is allowed, and parts are to be kept to a minimum. This transfer switch shall not contain integral overcurrent devices in the main power circuit, including molded case circuit breakers or fuses.
- 8.3.2 The transfer switch electrical actuator shall have an independent disconnect means to disable the electrical operation during manual switching. Maximum electrical transfer time in either direction shall be 160 milliseconds, exclusive of time delays. Main switch contacts shall be high pressure silver alloy contacts to resist burning and pitting for long life operation.
- 8.3.3 There shall be one Single Pole Double Throw, 10 ampere, 250 volt auxiliary contact on both normal and emergency sides, operated by the transfer switch. Full rated neutral bar with lugs for normal, emergency and load conductors shall be provided inside the cabinet.

### 8.4 CONTROL EQUIPMENT

- 8.4.1 All control equipment shall be mounted on the inside of the cabinet door in a metal lockable enclosure with transparent safety shield to protect all solid state circuit boards. This will allow for ease of service access when main cabinet lockable door is open, but prevent access by unauthorized personnel. Control boards shall have installed cover plates to avoid shock hazard while making control adjustments. The solid state voltage sensors and time delay modules shall be plug-in circuit boards with silver or gold contacts for ease of service.
- 8.4.2 A solid state under-voltage sensor shall monitor each phase of the normal source and provide adjustable ranges for field adjustments for specific applications needs. Pick-up and drop-out settings shall be adjustable from a minimum of 70% to a maximum of 95% of nominal voltage. The utility input voltage shall be stepped down to 24VAC for safety and reliability.
- 8.4.3 Signal the engine-generator set to start in the event of a power interruption. A set of contacts shall close to start the engine and open for engine shutdown. An adjustable, solid state time delay start (1 to 180 seconds) shall delay this signal to avoid nuisance start-ups on momentary voltage dips or power outages.
- 8.4.4 Transfer the load to the engine-generator set after it reaches proper voltage (80%) and frequency (80%). A solid state time delay (30 seconds) shall delay this transfer to allow the engine-generator to warm-up before application of load. There shall be a switch to bypass this warm-up timer when immediate transfer is required.
- 8.4.5 Retransfer the load to the line after normal power restoration. A return to utility timer (5-10 minutes) shall delay this transfer to avoid short term normal power restoration.
- 8.4.6 The operating power for transfer and retransfer shall be obtained from the source to which the load is being transferred. Controls shall provide an automatic retransfer of the load from emergency to normal if the emergency source fails with the normal source available.

- 8.4.7 Signal the engine-generator to stop after the load re-transfers to normal. An adjustable, solid state engine cool-down timer (3-10 minutes) shall permit the engine to run unloaded to cool-down before shutdown.
- 8.4.8 Provide an engine minimum run timer (10 minutes) to ensure an adequate engine run period.
- 8.4.9 Provide a solid state plant exercise clock to set the day and time of generator set exercise period. Clock shall have a seven days, 24 hour programmable clock powered from the load side of the transfer switch. A 150 hour internal battery shall be supplied to maintain the circuit board settings when the load side of the transfer switch is de-energized. Include a switch to select if the load will transfer to the engine-generator set during the exercise period.
- 8.4.10 The transfer switch shall have a time delay neutral feature to provide a time delay (5 seconds) during the transfer in either direction during which time the load is isolated from both power sources. This allows residual voltage components of motors or other inductive loads (such as transformers) to decay before completing the switching cycle. A switch will be provided to bypass this feature when immediate transfer is required.
- 8.4.11 Front mounted controls shall include a selector switch to provide for a NORMAL TEST mode with full use of time delays, FAST TEST mode which bypasses all time delays to allow for testing the entire system in less than one minute, or AUTOMATIC mode to set the system for normal operation.
- 8.4.12 Provide colored indicator lamps to be energized when the transfer switch position is in either UTILITY (white) or EMERGENCY (red). A third lamp shall be provided to indicate STANDBY OPERATING (amber). These lights shall be energized from utility or the engine-generator set.
- 8.4.13 Provide manual operating handle to allow for manual transfer. This handle shall be mounted inside the lockable enclosure so accessible only by authorized personnel.
- 8.4.14 Provide a safety disconnect switch to prevent load transfer and automatic engine start while performing maintenance. This switch will also be used for manual transfer switch operation.
- 8.4.15 Provide LED status lights to give a visual readout of the operating sequence. This shall include: utility on, engine warm up, engine warm up bypass, standby voltage "ready", standby frequency "ready", standby on, transfer to standby, return to utility, engine cool-down, engine minimum run and fast test mode.
- 8.5 MISCELLANEOUS ATS EQUIPMENT
- 8.5.1 The transfer switch mechanism and controls shall be mounted in a NEMA 4X enclosure for outdoor, weatherproof, corrosion-proof, dustproof installation.

**9. Seismic Requirement** - Show seismic ratings on any and all equipment being provided.

**10. Initial set of spare parts for 2000 operating hours**— List the type and number of spare parts being provided. Note that spec recognizes 250 hours to be one change cycle for all filters and associated gaskets.

General parts: Provide one set of maintenance (spare) parts for each genset ordered under this contract. An order of maintenance parts is defined as all items necessary to perform scheduled maintenance functions for 2000 operating hours plus replacement bulbs for indicators, replacement fuses for each fuse used on the genset and any other like items that the manufacturer deems desirable. Package these maintenance parts in polyethylene bag, and pack inside the genset for which they are intended. Should there be insufficient room inside genset, enclose parts bag in protective package and attach to shipping

skid. This group of parts shall include a complete list of all vendors recommended spares, including, but not limited to, the items listed below:

1. Engine lubricating oil filters and filter gaskets, if separate from filter.
2. Fuel filters and filter gaskets, if separate from filter.
3. Engine intake air filters and filter gaskets, if separate from filter.
4. A minimum of five light bulbs of each size light bulb used in the genset.
5. A minimum of five electrical fuses of each size fuse used in the genset.
6. One engine lubrication oil system drain plug.

For the 2000-hour requirement for replacement parts, one replacement cycle for all filters and associated gaskets shall be 250 hours. The offer shall include a complete list of all vendors recommended spares.

**11. Testing of generator before shipping according to NFPA 110** —Indicate intent to test each generator before the generator leaves the factory or vendor. Test reports must be sent to us and approved by us before generator can be shipped. Tests on prototype generators are not acceptable. Before shipment of the equipment, the engine-generator set shall be tested under rated load and power factor for performance and proper fronting of control and interfacing circuits. Tests shall include:

1. Verifying all safety shutdowns and components are functioning properly.
2. Single step load pick-up per NFPA 110-1985, Paragraph 5-13.2.6.
3. Transient and voltage dip responses and steady state voltage and speed (frequency) checks.
4. The factory test data sheet shall identify all tests (PASSED or FAILED) and accompany each generator set. This will be reviewed by the Department of State Representative (DOSREP) before written acceptance is provided.